

INTERNAT' NAL SEARCH REPORT

National Application No
PCT/FR 03/03881

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16K11/085 F16K5/18 B60H1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16K B60H F01P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	FR 2 827 360 A (VALEO THERMIQUE MOTEUR) 17 January 2003 (2003-01-17) page 14, line 19 - page 16, line 24 figures 1-8, 31-33, 35-42	1, 2, 9-12
Y	US 6 164 248 A (LEHMANN KAI) 26 December 2000 (2000-12-26) column 2, line 51 - column 3, line 12 column 4, line 18 - line 45 figures	1-12
Y	WO 01/14773 A (FOLEA NICOLAE ; KLIPFEL BERNHARD HERMANN (DE); COOPER TIRE & RUBBER CO) 1 March 2001 (2001-03-01) page 8, line 1 - page 10, line 2 figures	1-3, 8-12
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

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L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Z document member of the same patent family

Date of the actual completion of the international search

25 June 2004

Date of mailing of the international search report

05/07/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 1 507 255 A (MILLET J) 12 April 1978 (1978-04-12) page 1, line 53 - page 2, line 30 figures	4-7
A	US 4 948 095 A (CAMPAU DANIEL N) 14 August 1990 (1990-08-14) column 2, line 46 - column 4, line 18 figures	1,2,9-11
A	US 4 132 388 A (BILLETER HENRY R) 2 January 1979 (1979-01-02) column 1, line 63 - column 2, line 65 figures	1,2,8,9
A	GB 934 531 A (BERNARD HENRY REFSON) 21 August 1963 (1963-08-21) page 1, line 55 - page 2, line 18 figures	1-5
A	US 3 301 522 A (ASHBROOK CLIFFORD L ET AL) 31 January 1967 (1967-01-31) column 2, line 13 - column 3, line 11 figures	1,2,4-6
A	US 2 045 113 A (WARD LEO A) 23 June 1936 (1936-06-23) column 3, line 24 - column 4, line 20 figures 1-3	1,2